

FIELD OFFICES

Alabama

2003 Byrd Spring Rd. SW, Suite 106
Huntsville, Alabama 35892
(205) 831-2711

California

9171 Wilshire Boulevard
CEIR Building, Suite 610
Beverly Hills, Calif. 90210
(213) 278-1901

1041 O'Gallo Road
Santa Clara, Calif. 95050
(408) 241-5650

Connecticut

125 La Salle Road, Room 207
West Hartford, Connecticut 06107
(203) 523-4037

Florida

P.O. Box 5401
20801 Boulevard Center Drive
Jacksonville, Florida 32207
(904) 359-5253

1010 Executive Center Dr. - Suite 115
Orlando, Florida 32803
(305) 841-1570

Georgia

500 Platters Avenue NE
Atlanta, Georgia 30324
(404) 875-9561

Illinois

3158 Des Plaines Avenue
Des Plaines, Illinois 60018
(312) 824-5186

Maryland

8121 Georgia Avenue
World Building Room 700
Silver Spring, Maryland 20910
(301) 537-1712

Massachusetts

275 Wyman Street
Waltham, Mass. 02154
(617) 893-2610

Michigan

20441 James Couzens Highway
Detroit, Michigan 48235
(313) 836-7170

Missouri

2146 Hampton Avenue
St. Louis, Missouri 63139
(314) 647-6100

New Mexico

1030 San Pedro NE
Albuquerque, New Mexico 87110
(505) 266-6714

New York

104-70 Queens Boulevard
Forest Hills, New York 11375
(212) 275-6200

3001 James Street
Syracuse, New York 13206
(315) 453-4534

Ohio

1001 E. 55th Street
Cleveland, Ohio 44103
(216) 881-0300

401 Astor Avenue
Dayton, Ohio 45449
(513) 299-8771

Pennsylvania

8367 Bristol Pike
Levittown, Pa. 19054
(215) 943-2210

Bee St. at Greentree Rd
Pittsburgh, Pa. 15220
(412) 922-4422

Texas

P.O. Box 64776
6000 No. Central Expressway
Dallas, Texas 75206
(214) 363-5441
P.O. Box 66667
3322 Richmond Avenue
Houston, Texas 77006
(713) 529-3163

Washington

24602 B Military Road
Kent, Washington 98031
(206) 878-2520



253
FIELD
PROVEN
PROGRAMS
WITH EVERY
DDP-124
I/C COMPUTER
FROM
HONEYWELL....

Honeywell

4-6715



COMPUTER CONTROL
DIVISION

μ -COMP DDP-124

FEATURES

Silicon monolithic integrated circuitry

1.75 μ sec memory cycle

24-bit word, sign/magnitude arithmetic

Fast multiply-divide hardware

3 hardware index registers (one standard, two optional)

Indirect addressing

Modular memory expansion to 32,768 words directly addressable

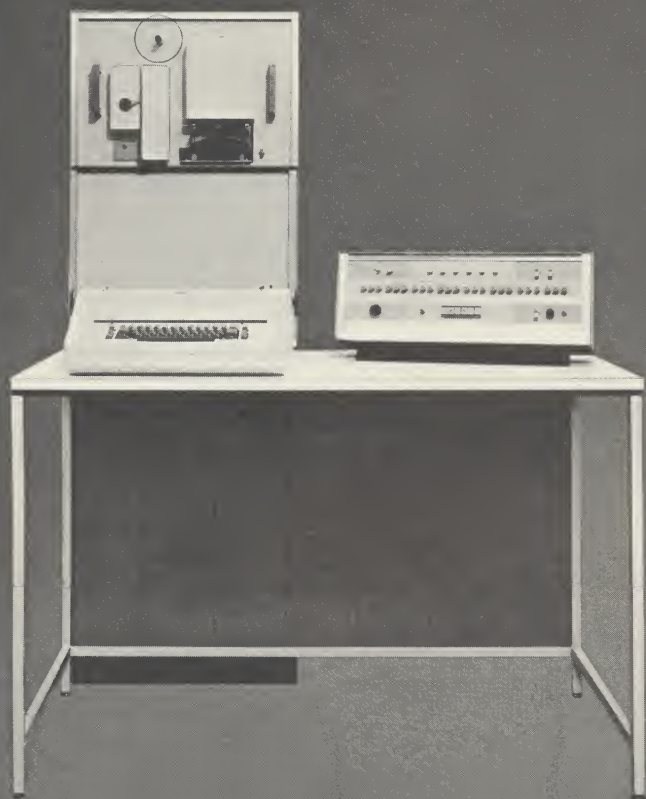
The μ -COMP DDP-124 is a fast, general purpose digital computer featuring μ -PAC monolithic I/C construction for high reliability, high performance, high speed at low cost.

Other standard features include indexing, indirect addressing, high speed I/O with automatic interrupt. Input and output can occur asynchronously and be interleaved with processing. Typewriter and high speed paper tape I/O are program controlled.

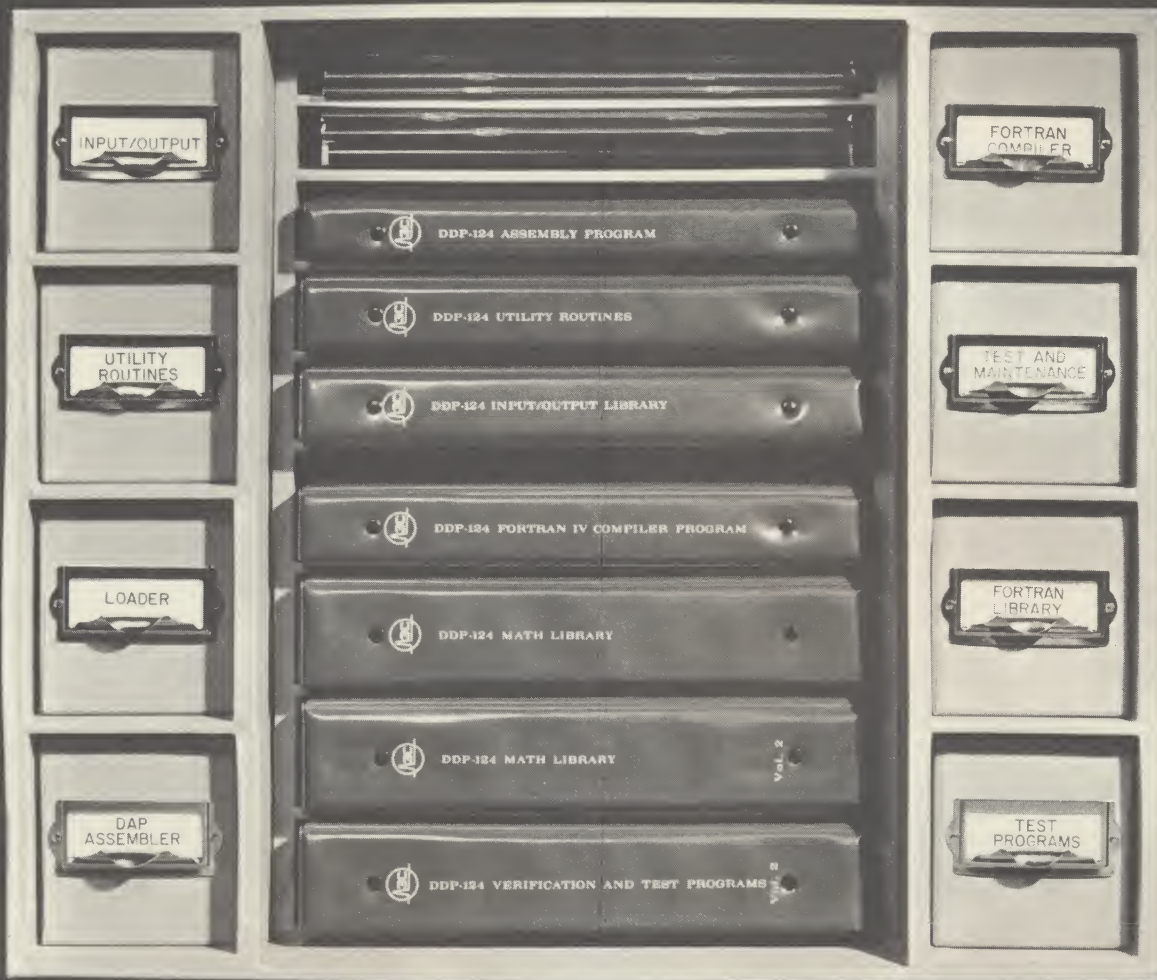
DDP-124 is capable of 285,000 computations per second — 3.5 μ sec add, 14 μ sec multiply, 19.6 μ sec divide. Full I/O word transfer takes only 1.75 μ secs.

A key factor in the DDP-124's unique software strength is the flexible and powerful command structure with its simple command format.

(See inside for more detailed information on DDP-124 software.)



DDP-124 SOFTWARE LIBRARY



STANDARD DDP-124 LIBRARY PROGRAMS

SYSTEMS PROGRAMS

Input/output selector, DEP

Loaders, DOP/DEP:

- Direct-memory-access channel
- Fully buffered channel
- Parallel-input channel

Search, select and load through:

- Direct-memory-access channel
- Fully buffered channel
- Parallel-input channel

Search, select, control, load and execute:

- Resident-memory portion:
 - Direct-memory-access channel
 - Fully buffered channel
 - Parallel-input channel
- Shared-memory portion

INPUT/OUTPUT LIBRARY

FORTRAN IV links:

- Argument transfer
- Backspace magnetic tape:
 - Transport n
 - Transport (number)
- Buffer closeout
- Format control

Input from:

- Cards
- Device n
- Magnetic tape, transport (number)
- Paper tape
- Typewriter

Output on:

- Cards
- Device n
- Line printer
- Magnetic tape, transport (number)
- Paper tape
- Typewriter

Rewind magnetic tape:

- Transport n
- Transport (number)

Write file mark on magnetic tape:

- Transport n
- Transport (number)

Loaders:

- Basic DAP/FORTRAN for all media
- Cards only (absolute, self-contained deck)

Selectors for use with:

- DAP II assembler
- FORTRAN IV compiler
- LOADER2

Standard Library:

Advance line printer one line

Backspace magnetic tape:

- One file
- One record

Control number of lines per page on typewriter or line printer

Convert bcd to column binary

Convert magnetic-tape transport numbers

Dummy library

Eject page:

- Line printer
- Typewriter

Forwardspace magnetic tape:

- One file
- One record

Initialize:

- Line-printer output:
 - Heading
 - No heading

Paper-tape input

Typewriter:

- Input
- Output:
 - Heading
 - No heading

Input from:

Cards:

- Bcd
- Binary

Magnetic tape:

- Bcd
- Binary
- Driver for direct-memory access channel
- Driver for direct-memory access and parallel-input/output channels
- Driver for parallel-input/output channel

Paper tape:

- Bcd
- Binary

Typewriter

Output On:

Cards:

- Bcd
- Binary

Line printer:

- Format
- No format

Magnetic tape:

- Bcd
- Binary
- Driver for direct-memory access channel
- Driver for direct-memory access and parallel-input/output channels
- Driver for parallel-input/output channel

(continued inside)

FIELD

Alabama
2002 B
Huntsv
[202] B
California
B17, V
CEH T
Gower
[103] A
[103] F
Silver
[103] J
Connectic
123 La
West
[203] J
Florida
P.O. 4
3960 T
[103] J
[103] J
[103] J
[103] J
[103] J
Georgia
500 P
Athens
[404] J
Illinois
3108
Olive F
[312] J
Maryland
8121
Wor
Silver
[301] J
Massac
275 V
Wain
[617] J
Michigan
2044
Delra
[313] J

H



STANDARD DDP-124 LIBRARY PROGRAMS

INPUT/OUTPUT LIBRARY (cont.)

- File mark
- Paper tape:
 - Bcd
 - Binary
 - Leader
 - Stop code
 - Stop code
- Typewriter:
 - Basic output
- One line:
 - Format
 - No format
- Rewind magnetic tape

MATHEMATICAL LIBRARY: Complex

- Absolute value
- Add
- Add single-precision argument
- Conjugate
- Convert imaginary part to real
- Convert real part to real
- Cosine
- Divide
- Divide by single-precision argument
- Exponential, base e
- Load
- Logarithm, base e
- Multiply
- Multiply by single-precision argument
- Negate
- Raise to integer power
- Sine
- Square root
- Store (hold)
- Subtract
- Subtract single-precision argument

MATHEMATICAL LIBRARY: Double-Precision

- Fixed-point:
 - Add
 - Arccosine
 - Arcsine
 - Arctangent
 - Convert binary to decimal
 - Convert decimal to binary
 - Cosine
 - Divide

- Exponential, base e
- Logarithm, any positive integer base
- Logarithm, base e
- Logarithm, base 2
- Logarithm, base 10
- Multiply
- Odd polynomial evaluation
- Sine
- Square root
- Subtract
- Tangent

Floating-point:

- Absolute value
- Add
- Add single-precision argument
- Add integer to exponent
- Arctangent, principal value
- Arctangent, x/y
- Clear (zero) exponent
- Convert exponent to integer
- Convert (FORTRAN-generated) to integer
- Convert to integer
- Convert to single-precision (from memory)
- Convert to single-precision (from pseudo accumulator)
- Cosine
- Divide
- Divide by single-precision argument
- Exponential, base 10
- Load
- Logarithm, base e
- Logarithm, base 10
- Maximum value
- Minimum value
- Multiply
- Multiply by single-precision argument
- Negate
- Raise to double-precision power
- Raise to integer power
- Raise to single-precision power
- Remainder
- Sine
- Square root
- Store (hold)
- Subtract
- Subtract single-precision argument
- Transfer sign of second argument to first
- Truncate fractional bits

Integer:

- Absolute value
- Convert to double-precision
- Convert (FORTRAN-generated) to single-precision
- Convert to single-precision
- Maximum single-precision value
- Maximum value
- Minimum single-precision value
- Minimum value

Honeywell

 **COMPUTER CONTROL**
DIVISION

Positive difference
Raise to integer power
Remainder
Transfer sign of second argument to first

MATHEMATICAL LIBRARY: Single-Precision

Fixed-point:

Arc cosine
Arc sine
Arc tangent
Convert binary to decimal
Convert decimal to binary
Cosine
Exponential, base e
Logarithm, any positive integer base
Logarithm, base e
Logarithm, base 2
Sine
Square root
Tangent

Floating-point:

Absolute value
Add
Add Integer to exponent
Arc tangent, principal value
Arc tangent, x/y
Clear (zero) exponent
Convert exponent to integer
Convert (FORTRAN-generated) to double-precision
Convert (FORTRAN-generated) to integer
Convert pair to complex
Convert to complex format
Convert to double-precision
Convert to integer
Cosine
Divide
Exponential, base e
Hyperbolic tangent
Load
Logarithm, base e
Logarithm, base 10
Maximum integer value
Maximum value
Minimum integer value
Minimum value
Multiply
Positive difference
Raise to double-precision power
Raise to integer power
Raise to single-precision power
Remainder
Sine
Square root
Store (hold)
Subtract
Transfer sign of second argument to first
Truncate fractional bits

TEST PROGRAMS

Central computer
Core memory
Input/output devices:
Card punch
Card reader
Console sense switches
Line printer
Paper tape punch and reader
Paper-tape reader, variable speed
Typewriter

UTILITY PROGRAMS

Assemble DAP-coded source program
Chain, or segment, program
Check:
Error-message suppression
Overflow (and set pseudo flag)
Pseudo sense lights
Sense switches
Compile FORTRAN-coded source program
Convert indirect address to direct
Debug (search, modify, clear memory, enter breakpoints, etc.)
Dump to:
Line printer (octal format with zero areas suppressed)
Line printer or magnetic tape (various formats)
Typewriter or paper tape (various formats)
Generate error message
Normalize
Punch:
Absolute, object paper tape or card deck
Self-loading paper tape
Quick look and change
Read in chained-program segment
Set pseudo error flag, cause type-out and halt
Set pseudo sense light
Simulate trapped instruction
Trace variables, array elements statement numbers, etc.
Transfer arguments from calling to called routine
Update:
and duplicate, all media
Blocked systems tape
Source paper tape
Relocatable, subroutine-library, object